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JUN 03 2004  
PATENT & TRADEMARK OFFICE

Appln. No. 10/748,325  
Reply to Notice to File Corrected Application Papers  
Replacement Sheet

1/6

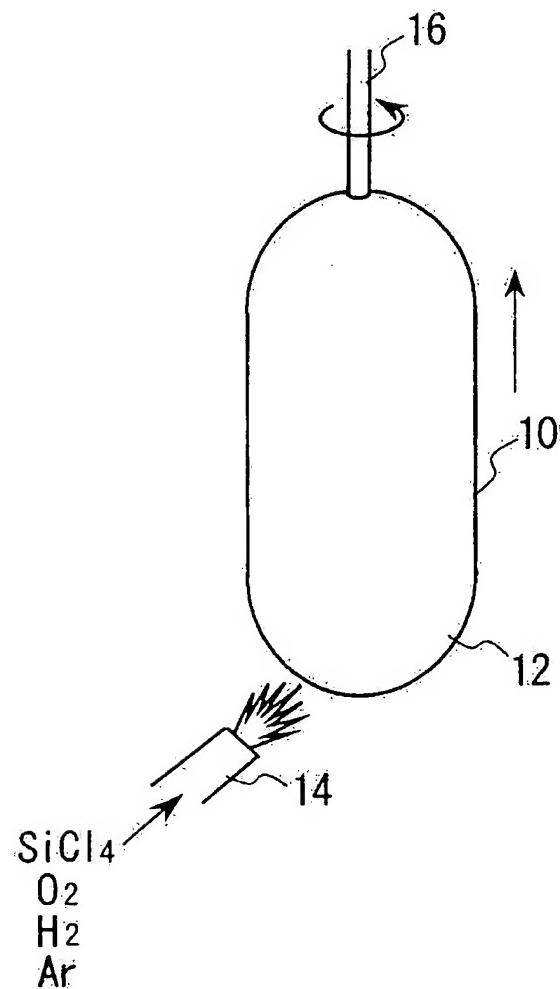


FIG. 1

2/6

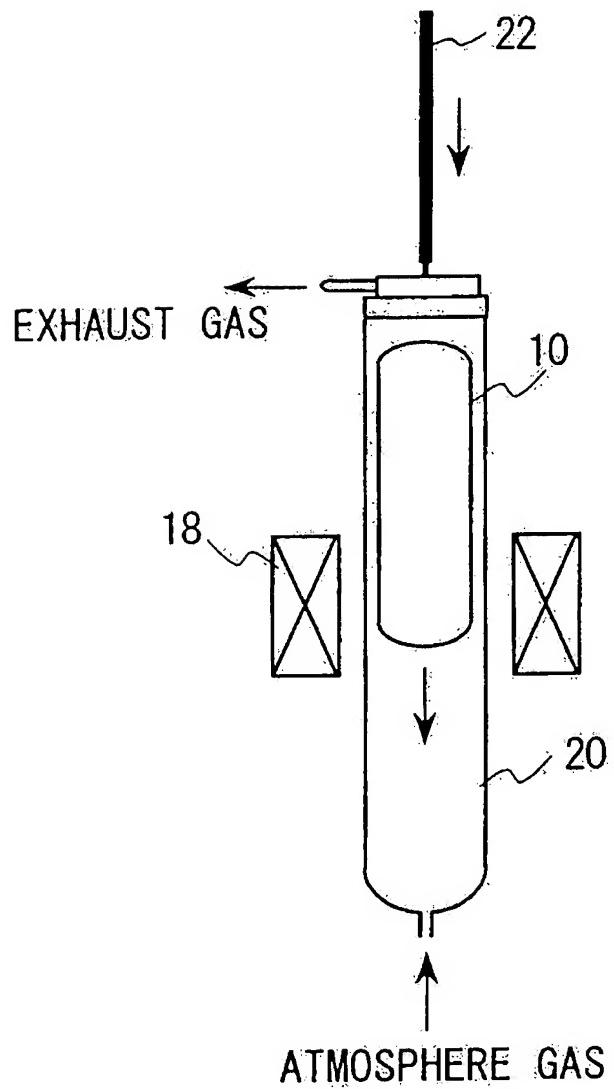


FIG. 2

Appln. No. 10/748,325  
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Replacement Sheet

3/6

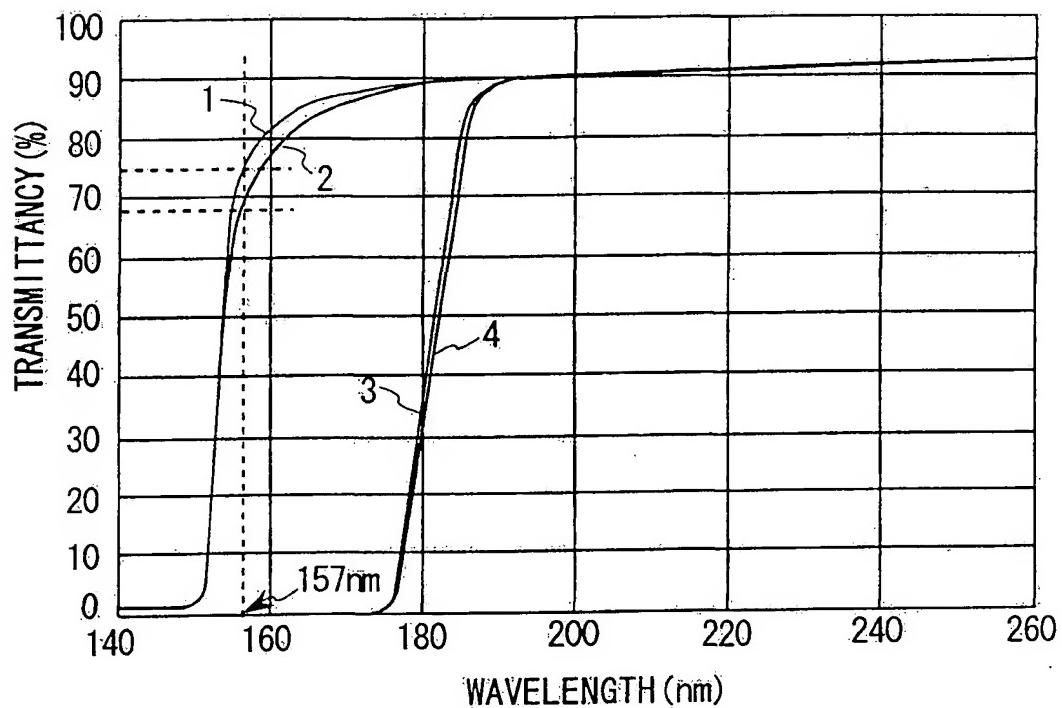
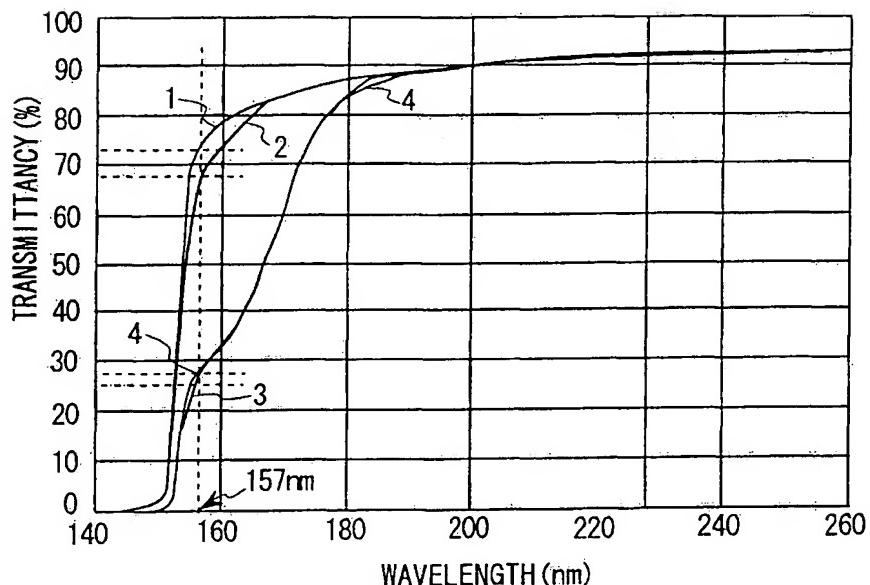


FIG. 3

Appln. No. 10/748,325  
Reply to Notice to File Corrected Application Papers  
Replacement Sheet

4/6



Appln. No. 10/748,325  
 Reply to Notice to File Corrected Application Papers  
 Replacement Sheet

5/6

	CONDITIONS				REMARKS
	FIRST PROCESS		SECOND PROCESS		
EXAMPLE 1	ATMOSPHERE TEMPERATURE PASSING SPEED	He 3 l/min, H <sub>2</sub> 0.5 l/min 100°C 3mm/min	SiF <sub>4</sub> 1.6 l/min 1380°C 3mm/min		PRE-HEATING PROCESS WITH H <sub>2</sub>
COMPARATIVE EXAMPLE 1	ATMOSPHERE TEMPERATURE PASSING SPEED	ATMOSPHERE TEMPERATURE PASSING SPEED	NONE	SiF <sub>4</sub> 1.6 l/min 1380°C 3mm/min	NO PRE-HEATING
COMPARATIVE EXAMPLE 2	ATMOSPHERE TEMPERATURE PASSING SPEED	ATMOSPHERE TEMPERATURE PASSING SPEED	NONE	SiF <sub>4</sub> 1.6 l/min, H <sub>2</sub> 0.5 l/min 1380°C 3mm/min	NO PRE-HEATING; SINTERING WITH H <sub>2</sub>
COMPARATIVE EXAMPLE 3	ATMOSPHERE TEMPERATURE PASSING SPEED	He 3 l/min, Cl <sub>2</sub> 0.3 l/min 100°C 3mm/min	SiF <sub>4</sub> 1.6 l/min, H <sub>2</sub> 0.5 l/min 1380°C 3mm/min		DEHYDRATION WITH Cl <sub>2</sub> ; SINTERING WITH H <sub>2</sub>

*FIG. 5*

Appln. No. 10/748,325  
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 Replacement Sheet

6/6

		CONDITIONS			REMARKS
		FIRST PROCESS		SECOND PROCESS	
EXAMPLE 2	ATMOSPHERE TEMPERATURE PASSING SPEED	He 1000°C 3mm/min	0 <sub>2</sub> 1 l/min 1380°C 3mm/min	SiF <sub>4</sub> 1.6 l/min 1380°C 3mm/min	PRE-HEATING PROCESS WITH O <sub>2</sub>
COMPARATIVE EXAMPLE 4	ATMOSPHERE TEMPERATURE PASSING SPEED	ATMOSPHERE 1000°C 3mm/min	NONE	SiF <sub>4</sub> 1.6 l/min 1380°C 3mm/min	NO PRE-HEATING
COMPARATIVE EXAMPLE 5	ATMOSPHERE TEMPERATURE PASSING SPEED	ATMOSPHERE 1000°C 3mm/min	NONE	SiF <sub>4</sub> 1.6 l/min, O <sub>2</sub> 1 l/min 1380°C 3mm/min	NO PRE-HEATING; SINTERING WITH O <sub>2</sub>
COMPARATIVE EXAMPLE 6	ATMOSPHERE TEMPERATURE PASSING SPEED	He 1000°C 3mm/min	C <sub>l</sub> 2 0.3 l/min 1380°C 3mm/min	SiF <sub>4</sub> 1.6 l/min, O <sub>2</sub> 1 l/min 1380°C 3mm/min	DEHYDRATION WITH C <sub>l</sub> 2; SINTERING WITH O <sub>2</sub>

FIG. 6